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Program Plan

To John C.

STAT From [redacted]

Subject Program Plan

Date Jan 21, 1971

Declassification Review by NGA/DoD

It has been shown that focus, based on resolution criterion, does not change with change of object transparency. The depth of focus is measured to be 45 μ within resolution tolerance 94 l/mm. Best focus is at position 31.605 cm. for the above setting, and the system can be focused to within ± 10 μ. This means that transparencies can be replaced without affecting focus, and that if focus is required it can be performed within depth of focus of system.

The main problem with the system is the size of the target [redacted] and the apparent

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tilt that exists at the input plane. The first thing to do is replace the T/O carrier with a standard Beck carrier (as is now in progress) and to use a smaller portion of the target near the on-axis position. This means we should recenter the target in several steps and use only the center cm^2 area of the input plane. This will preclude large errors from field curvature from affecting the system response measure.

Outline

① Replace input plane with Beck mount to obtain required alignment.

② Use "L" target to measure system response. Once the target is placed in the system and the system is focused & clocked then all system variables can be considered constant.

③ Trace target and output. Plot contrast vs. line frequency for input processed output, unprocessed output.

Schedules [redacted] Lab program schedules.

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